

FIG. 3A

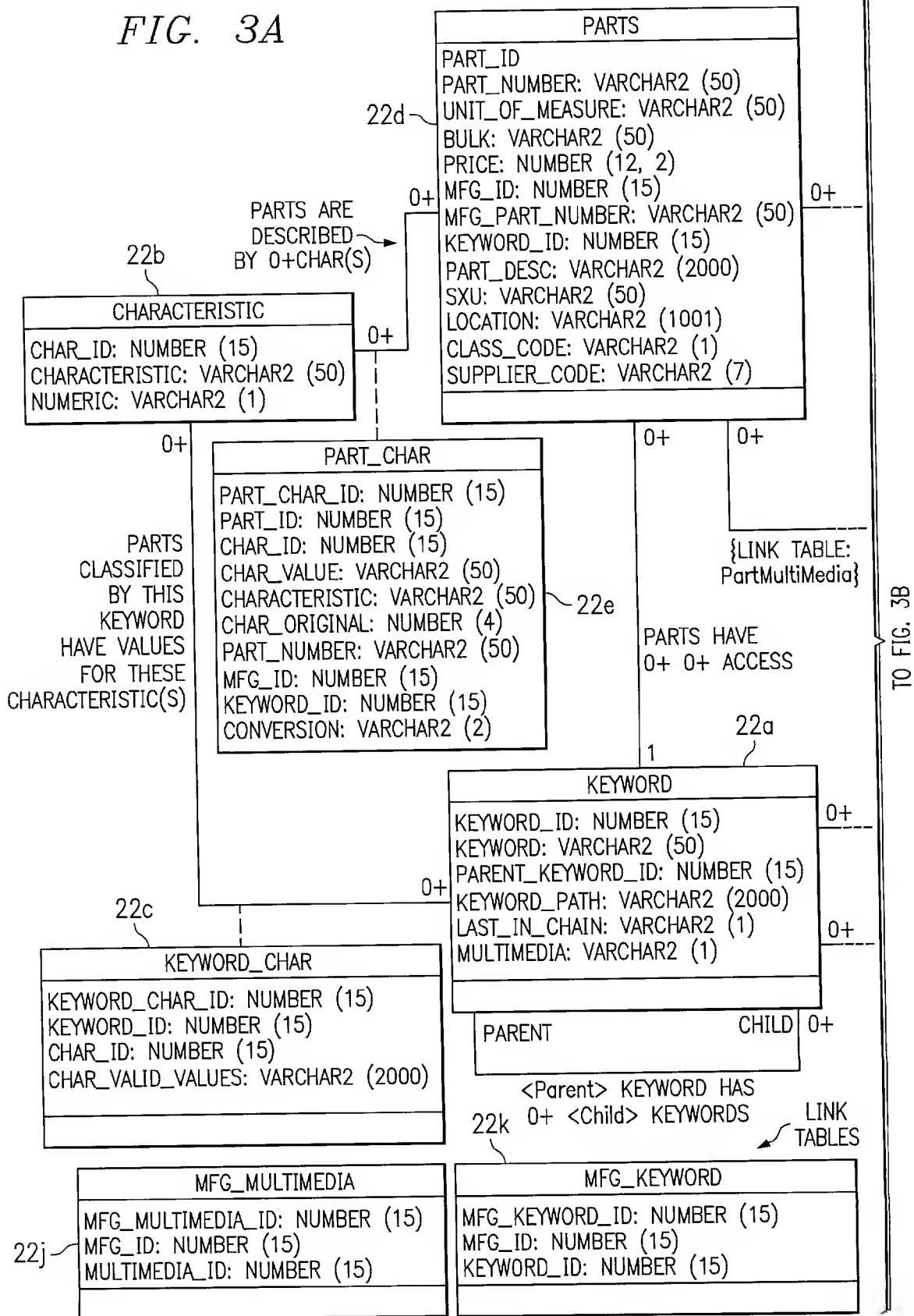


FIG. 3B

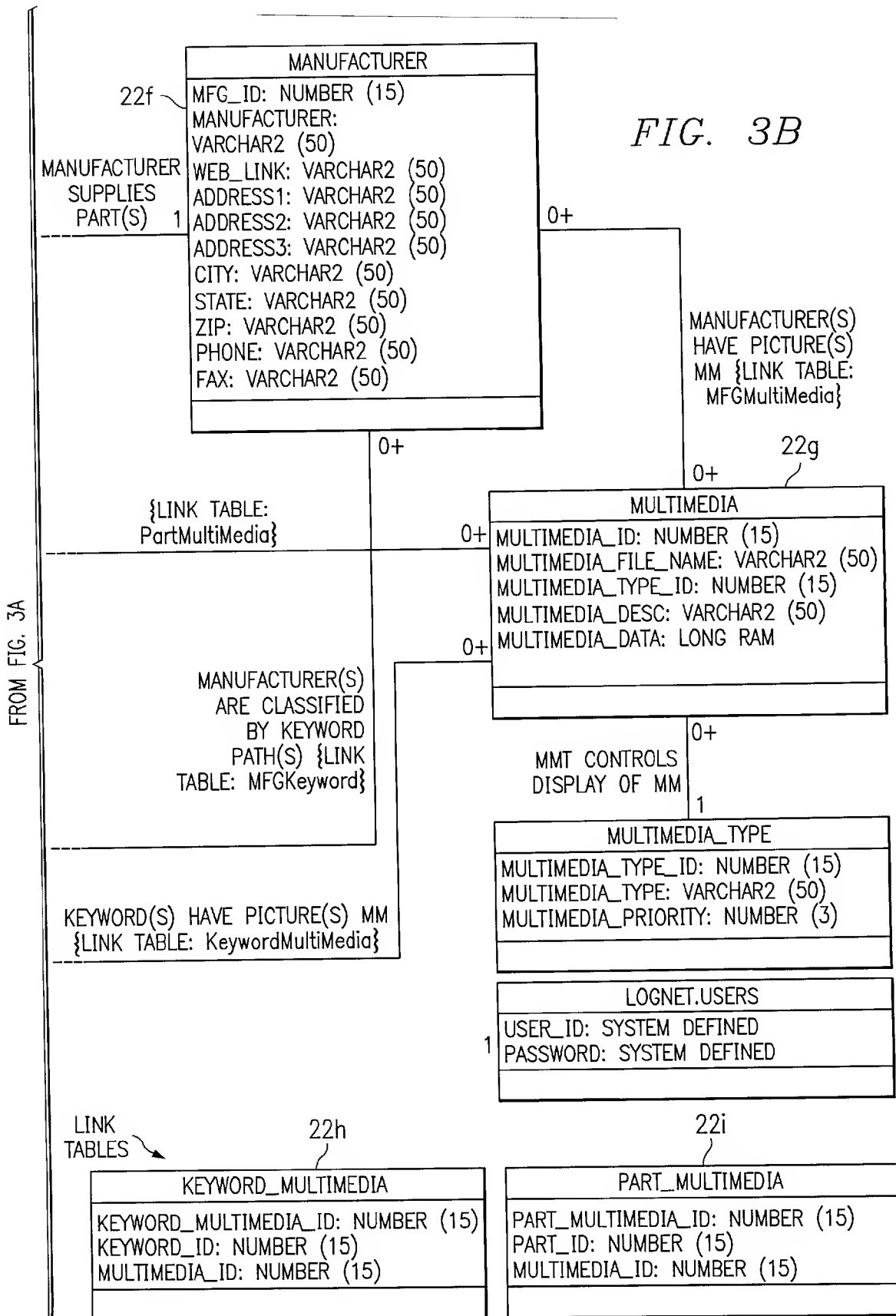


FIG. 3C

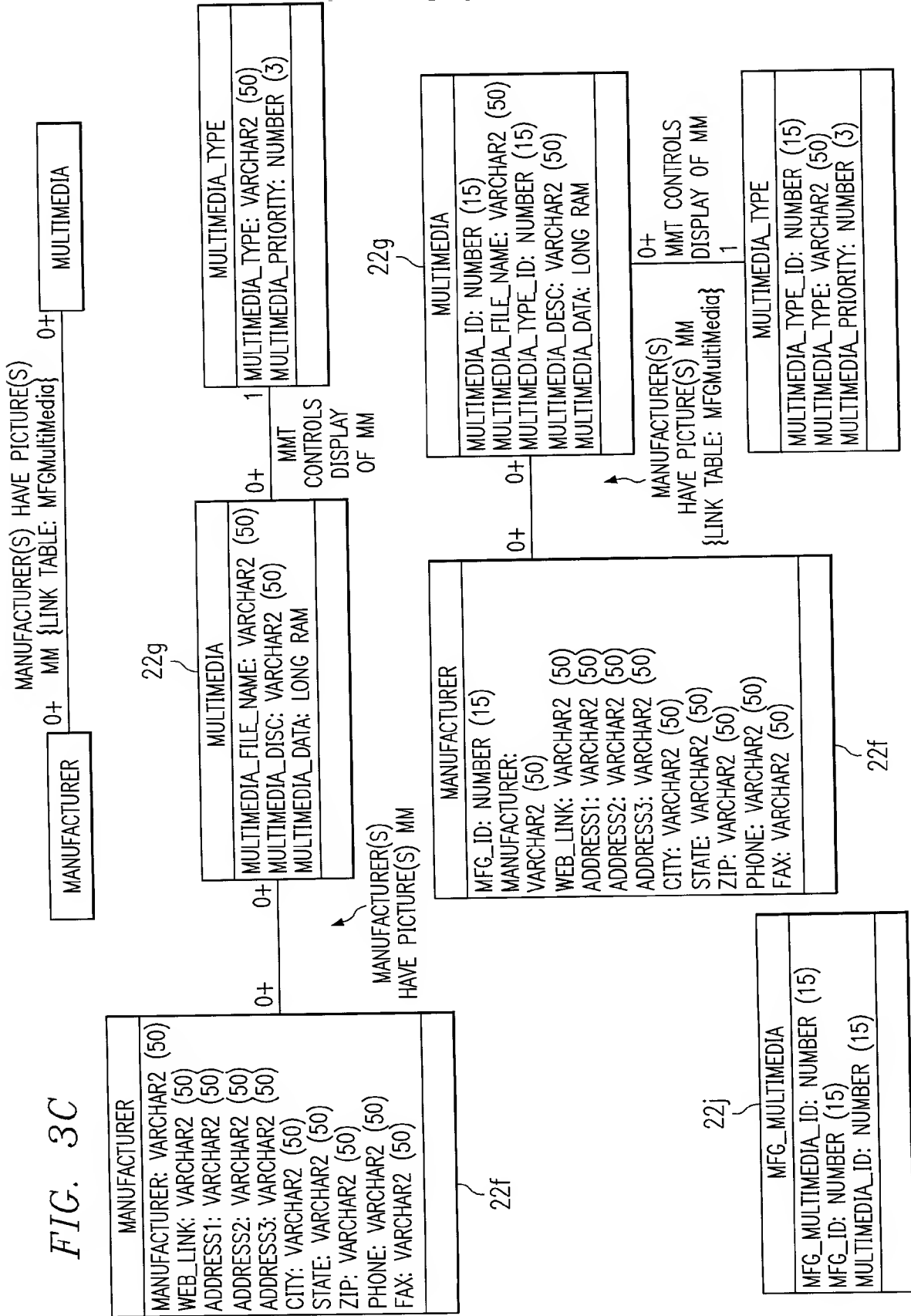
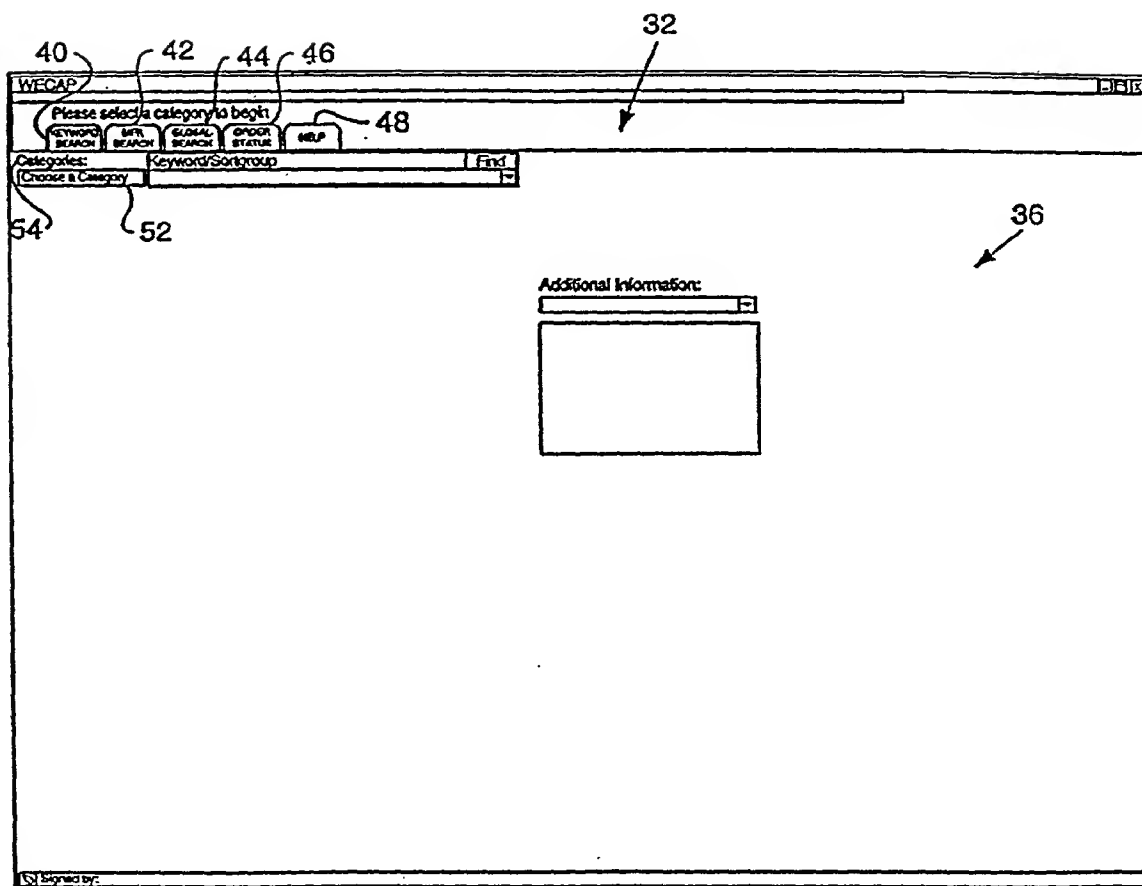


Fig. 4A



30

Fig. 4B

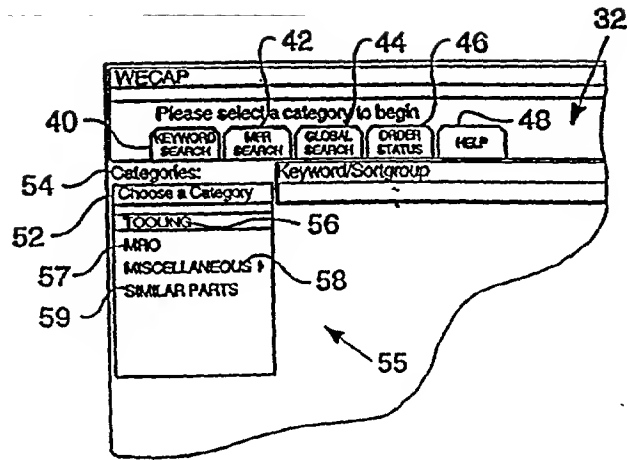


Fig. 5A

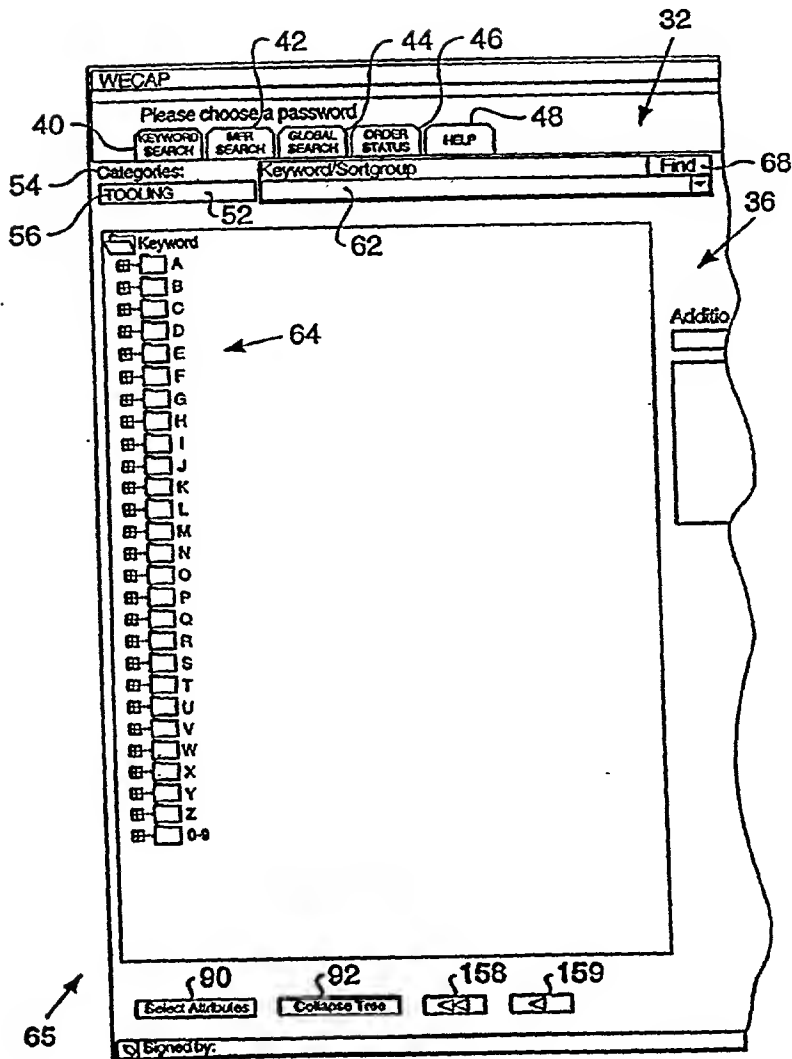


Fig. 5B

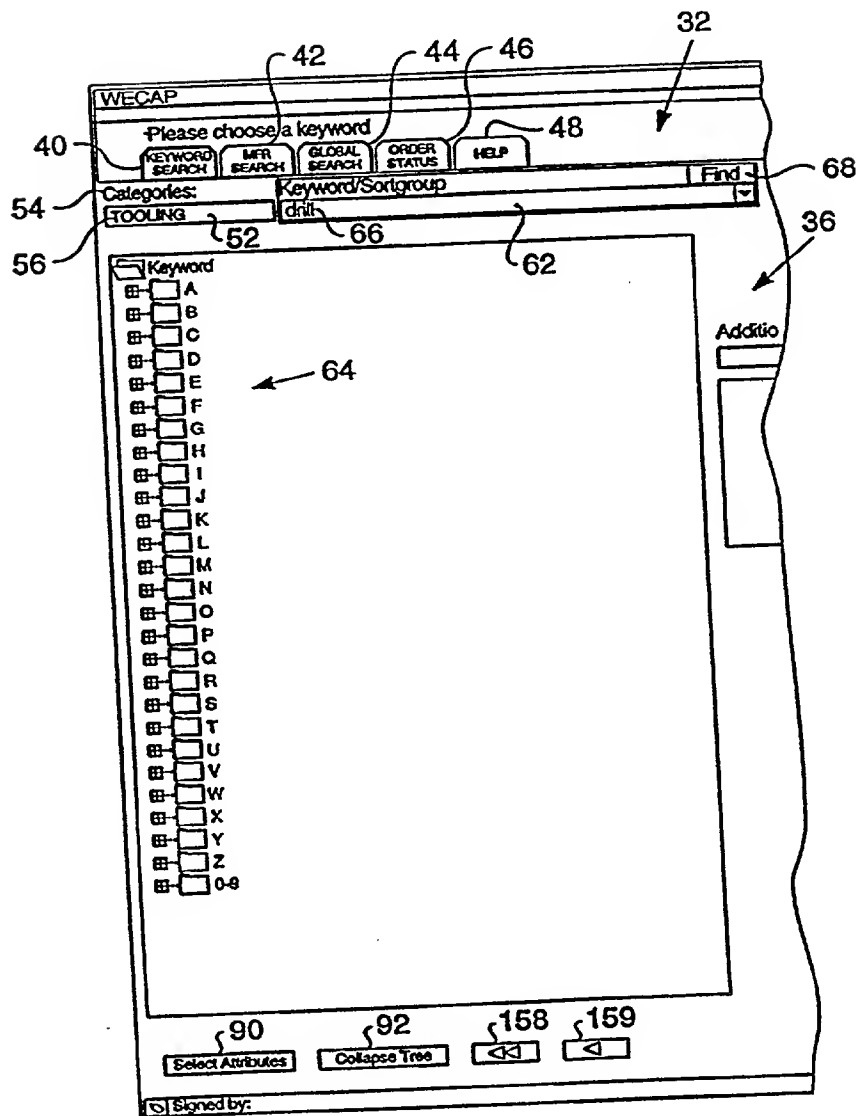


Fig. 5C

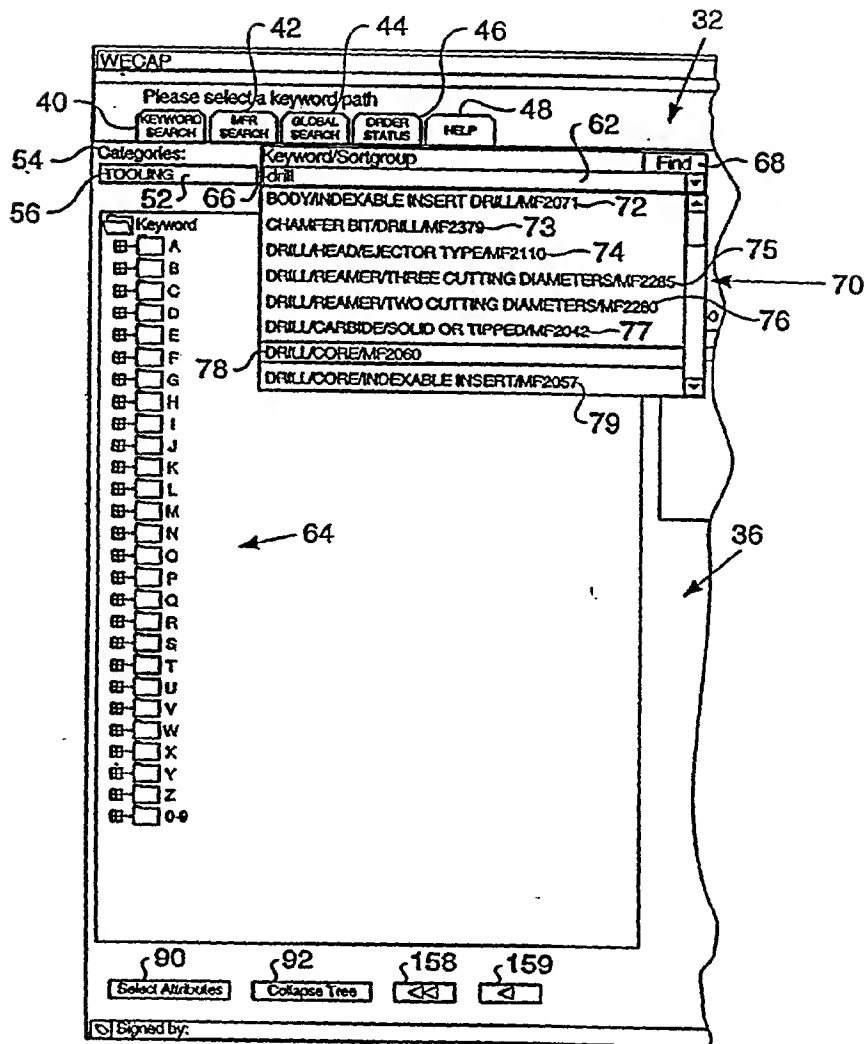




Fig. 5D

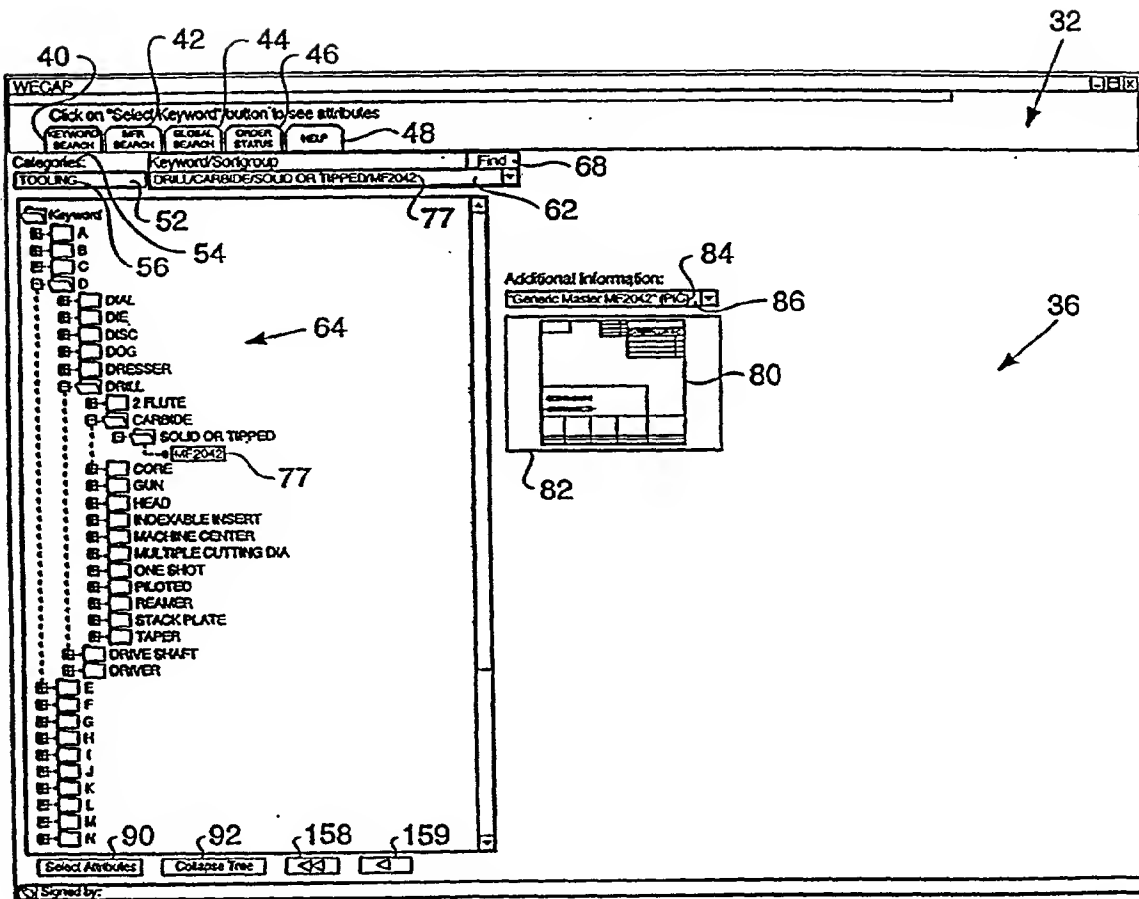


Fig. 6A

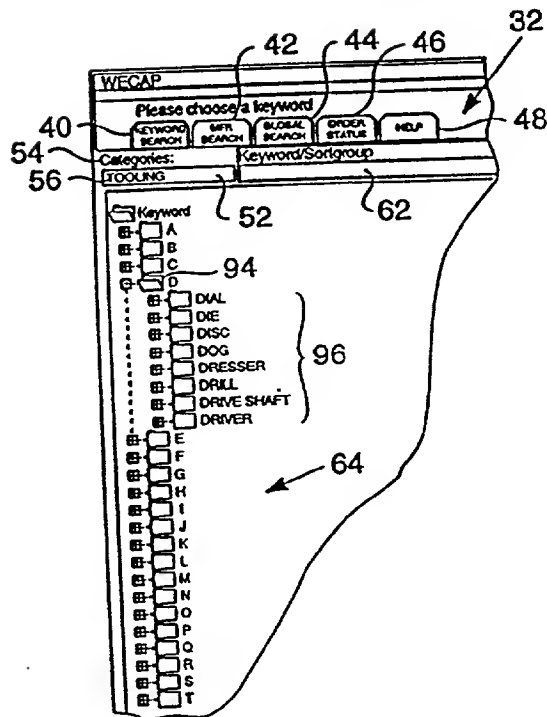


Fig. 6B

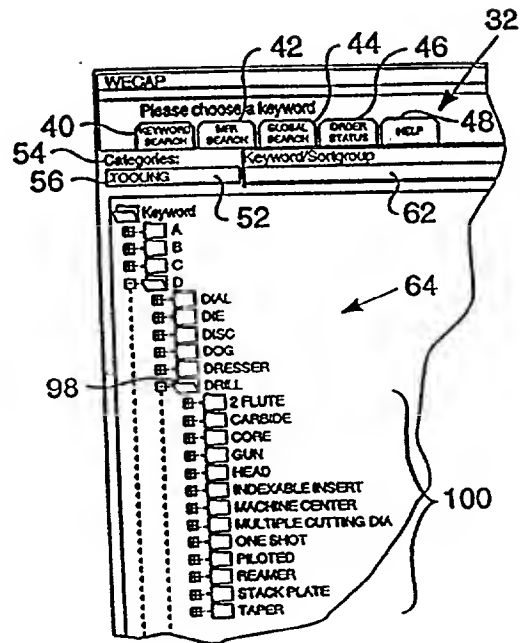


Fig. 6C

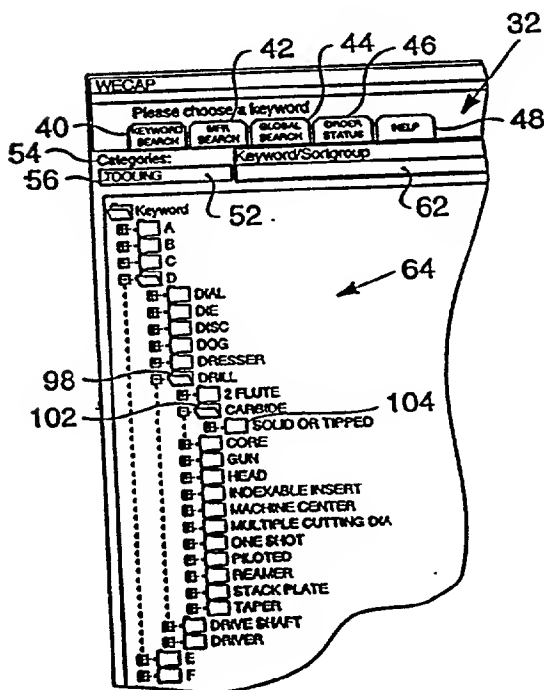


Fig. 6D

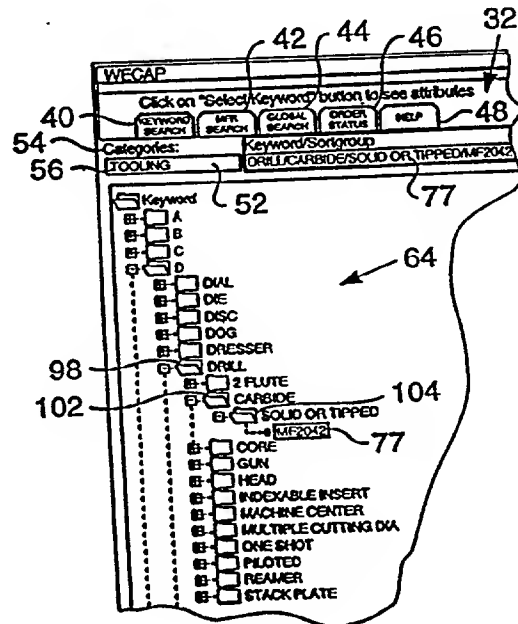


Fig. 7

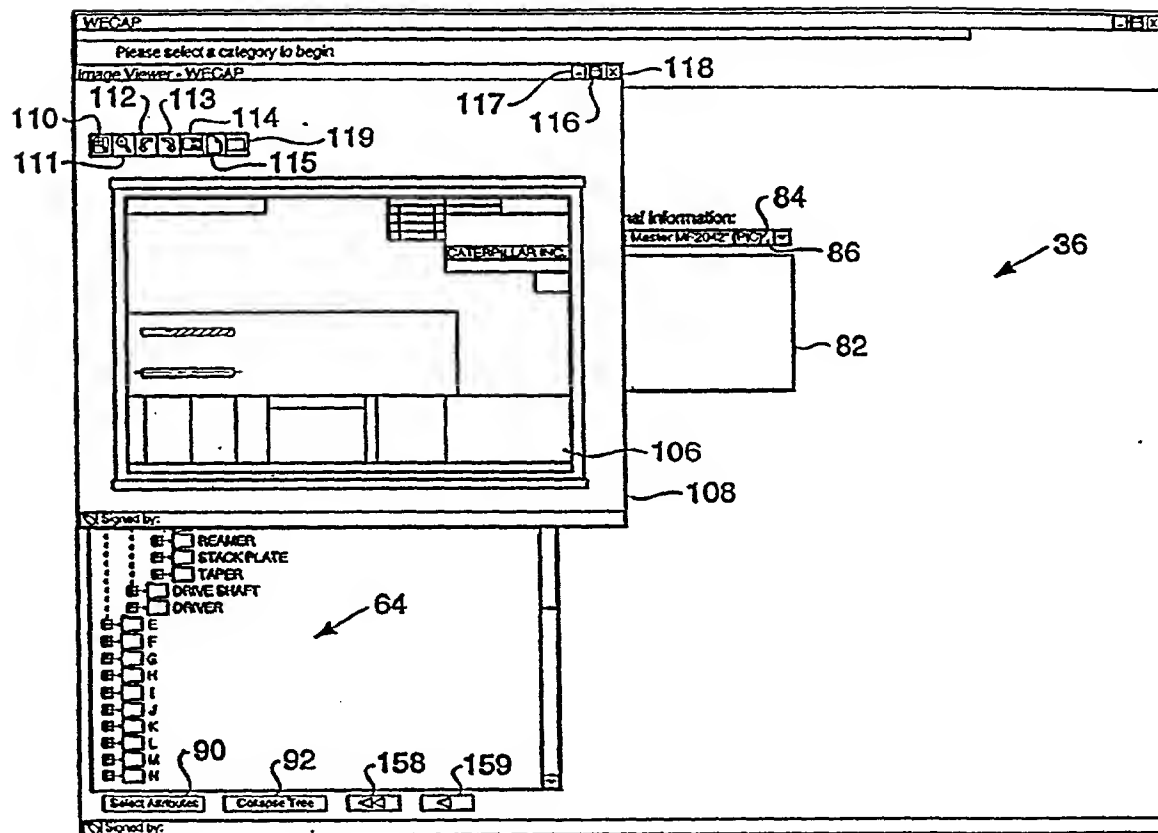


Fig. 8A

40 42 44 46 32 36 54 56 52 77 126 122 124 120 138 148 146 142 136 144 159 154 150 152 158

Attributes	Equal to	Minimum	Maximum
SHAPE			
CUTTING DIA-A			
OVERALL LENGTH-B			
FLUTE LENGTH-G			
SHANK DIAMETER-D			
SPK REDUCED LGTH-E			
POINT STYLE			
POINT ANGLE-F			
MARGIN			
OIL HOLE			
MATERIAL TYPE			
MATERIAL GRADE			
PT GRD INC ANG-G			
PT GRIND LGTH-H			
PT GRD PT LGTH-I			
QTY FLUTES			
SURFACE TREAT			

Fig. 8B

Fig. 8C

Fig. 8D

Fig. 8E

QTY FLUTES  
SURFACE TREAT

Facility: (ALL) Crib: (ALL)

Search Clear All Clear Row

Signed by:

Fig. 8F

QTY FLUTES  
SURFACE TREAT

Facility: (ALL)  
ADMINISTRATION BUILDING  
AURORA PLANT  
BUILDING AD  
CAT AIRCRAFT DIVISOR PEO AIRPT

Crib: (ALL)

Clear Row

Signed by:

Fig. 9A

168  
40  
54  
56  
52  
160

WECAP

Results 1-100 of 398

KEYWORD SEARCH MFR SEARCH GLOBAL SEARCH ORDER STATUS HELP

Categories: TOOLING

Keyword: DILL CARBIDE/SOLID OR TIPPER MF2042

32 161 42 44 46 48 162 163 164 165 166 167 36

PART NO.	SHAPE	CUTTING DIA.-A	OVERALL LENGTH-B	FLUTE LENGTH-C	SHANK DIAMETER-D	SHK REDUCED LGH-E	POINT
0020420411	1.0000	1.2000	30.0000	13.0000	1.5000		
0020378942	1.0000	1.2000	38.1000	19.1000	1.2000		
0020420284	1.0000	1.3400	49.0000	4.0000	3.1800		
0020420415	1.0000	1.4000	60.8000	15.0000	1.4000		1.00
0020384374	1.0000	1.4200	60.8000	25.4000	1.4200		1.00
0020376682	1.0000	1.6000	36.2000	19.1000	1.6000		1.00
0020420271	1.0000	1.6990	36.1000	9.7000	3.1700		1.00
0020420147	1.0000	1.7000	43.0000	20.0000	1.7000		1.00
0020420266	1.0000	1.7090	39.9000	11.9000	1.7000		1.00
0020420536	1.0000	10.0000	101.6000	47.6000	10.0000		
0020420442	1.0000	10.0000	114.3000	73.0000	10.0000		
0020420446	1.0000	10.0000	114.3000	73.0000	10.0000		
0020420321	1.0000	10.0000	136.0000	80.0000	10.0000	1.0000	1.00
0020373532	1.0000	10.0000	75.0000	38.0000	10.0000		1.00
0020382367	1.0000	10.0000	90.5000	43.5000	16.0000	40.0000	
0020420412	1.0000	10.3000	139.5000	75.6000	12.0000		
0020420469	1.0000	10.3200	112.0000	65.0000	10.3200		
0020420222	1.0000	10.3200	128.0000	78.0000	15.8750		
0020420257	1.0000	10.5000	108.4000	61.4000	16.0000	40.0000	
0020420444	1.0000	10.5000	114.3000	73.0000	10.5000		
0020420527	1.0000	10.5000	118.0000	71.0000	12.0000		
0020363318	1.0000	10.5000	140.0000	80.0000	16.0000		1.00
0020420158	1.0000	10.5000	140.0000	80.0000	16.0000		1.00
0020420122	1.0000	10.5000	149.0000	84.0000	11.0000		1.00
0020420195	1.0000	10.5000	152.0000	76.0000	10.5000		1.00
0020420068	1.0000	10.5000	184.0000	117.0000	10.5000		1.00
0020420357	1.0000	10.5000	85.7000	60.8000	10.5000		2.00

170 View Results 172 Ladder Sort Order 174 Units 176

Details Attributes Prev 100 Next 100 Reset Modify

208 212 180 178 196 182

Default Metric English

33 3 158 159

Signed by:

Fig. 9B

FIG. 9B

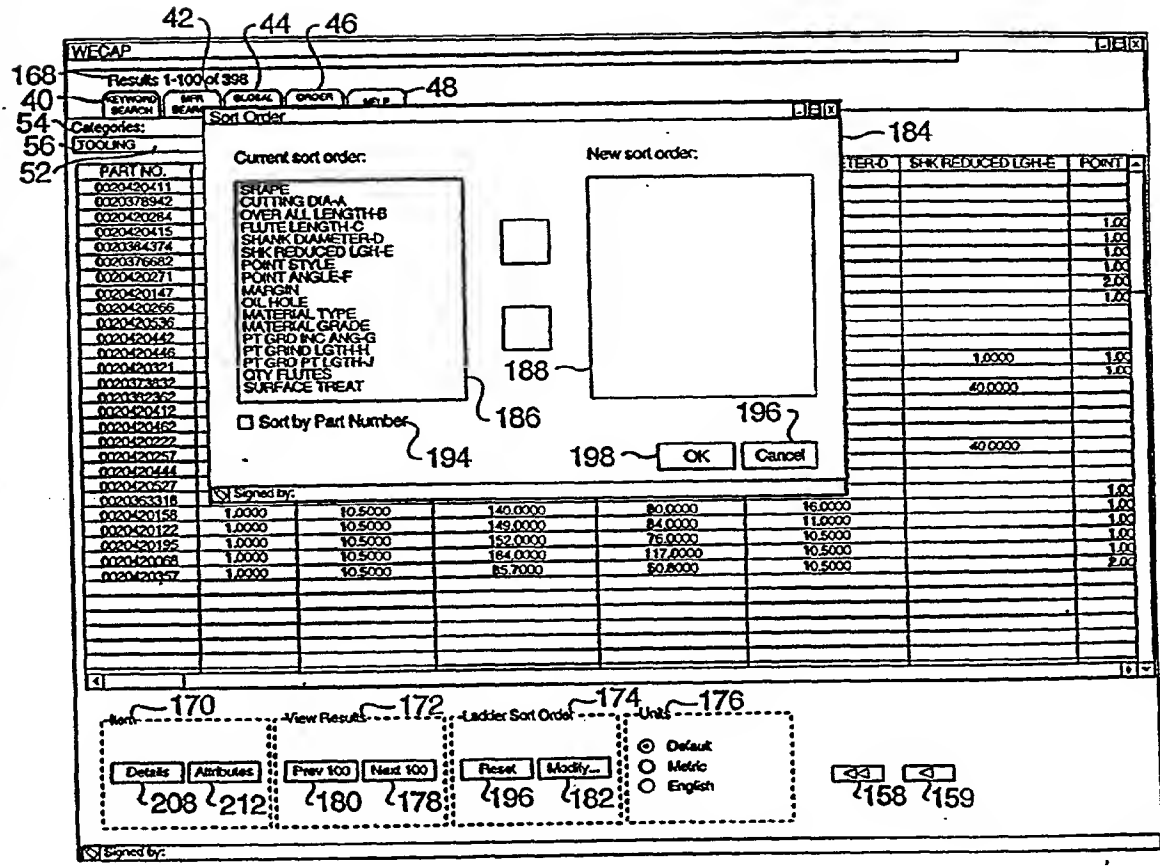




Fig. 9C

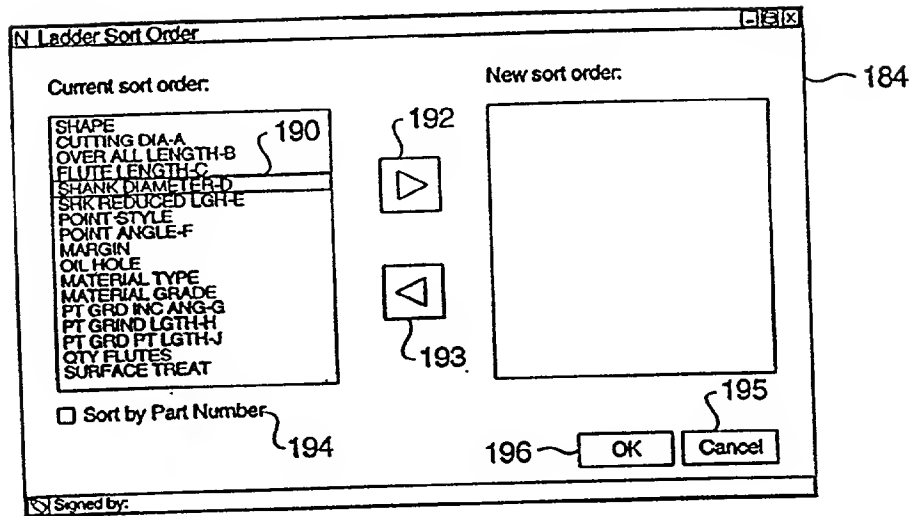


Fig. 9D

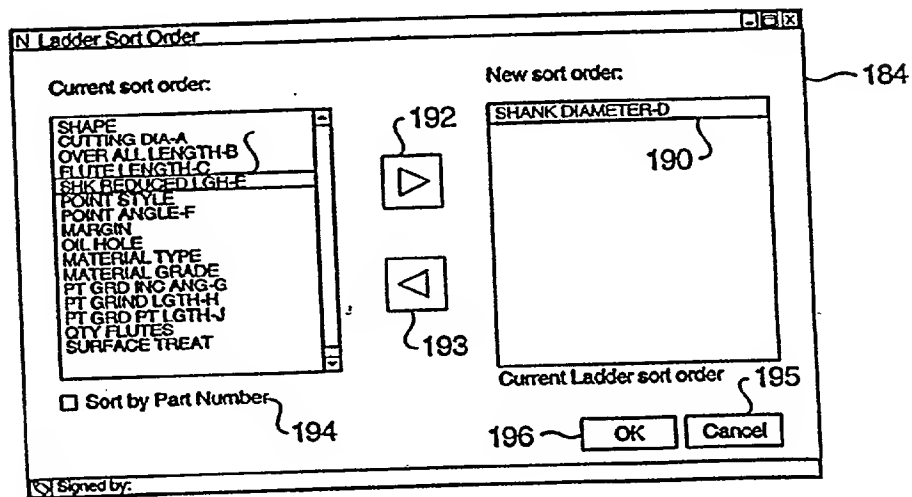


Fig. 9E

168 40 54 56 52

42 44 46 32 36

WECAP 1-100 of 398

KEYWORD SEARCH MFR SEARCH GLOBAL SEARCH DRUCK STATUS HELP 48

Categories: Keyword: DRILL CARBIDE/SOLID OR TIPPED DMF2042

PART NO.	SHANK DIAMETER (D)	SHAPE	CUTTING DIA-A	OVERALL LENGTH-B	FLUTE LENGTH-C	SHK REDUCED LGTH-E	POINT
00203789-2	1.2000	1.0000	1.2000	39.1000	19.1000		
0020420415	1.4000	1.0000	1.4000	50.8000	15.0000		1.00
0020384374	1.4000	1.0000	1.4000	50.8000	25.4000		1.00
0020420411	1.5000	1.0000	1.5000	30.0000	13.0000		
0020376582	1.6000	1.0000	1.6000	36.2000	19.1000		1.00
0020420147	1.7000	1.0000	1.7000	43.0000	30.0000		2.00
0020420266	1.7000	1.0000	1.7000	39.9000	11.9000		1.00
0020420336	10.0000	1.0000	10.0000	101.6000	47.6000		
0020420442	10.0000	1.0000	10.0000	114.3000	73.0000		
0020420448	10.0000	1.0000	10.0000	114.3000	73.0000		
0020420321	10.0000	1.0000	10.0000	135.0000	80.0000	1.0000	1.00
0020420382	10.0000	1.0000	10.0000	75.0000	36.0000		1.00
0020420402	10.0000	1.0000	8.2000	101.8000	47.8000	40.0000	
0020420332	10.0000	1.0000	8.7000	10.8000	61.0000		
0020420331	10.0000	1.0000	8.0000	103.0000	61.0000	40.0000	
0020420287	10.0000	1.0000	9.2000	135.0000	80.0000		1.00
0020420114	10.0000	1.0000	9.5000	135.0000	76.0000		1.00
0020420126	10.0000	1.0000	9.6000	145.0000	80.0000		1.00
0020420547	10.0000	1.0000	9.7000	151.0000	100.0000		
0020420417	10.0000	1.0000	8.1000	102.0000	62.0000		1.00
002035155	10.0000	1.0000	8.7000	102.0000	56.0000		1.00
0020780101	10.3120	2.0000	11.1130	139.7000	76.2000	127.0000	
0020420468	10.3200	1.0000	10.3200	112.0000	66.0000		
0020420444	10.5000	1.0000	10.5000	114.3000	73.0000		
0020420195	10.5000	1.0000	10.5000	152.0000	76.0000		1.00
0020420066	10.5000	1.0000	10.5000	164.0000	117.0000		1.00
0020420357	10.5000	1.0000	10.5000	85.7000	50.8000		2.00

170 172 174 176

Details Attributes Prev 100 Next... Reset Modify...

198 200 202

158 159

Signed by:

[illegible]

PART NO.	CUT DIA-A	OVERALL LENGTH-B	SHANK DIA-C	SHANK LENGTH-D	TIP LENGTH-E	FLUTE LENGTH-F	PNT
0019459262	8021	11.8702	8750	3.5000	2.2800	8.4500	2.00
0019459992	8185	15.5000	1.0000	3.5000	1.7500	11.5000	2.00
0019454812	2780	19.0000	1.4995	4.0000	2.0000	14.7500	2.00
0019458472	8550	12.0000	1.0000	3.0000	2.0000	8.5000	2.00
0019454002	8735	20.0000	1.4996	4.0000	3.0000	14.7500	2.00
0019457302	8375	16.0000	1.0000	3.5000	2.0000	11.5000	2.00
0019458042	8380	14.0000	1.4998	4.0000	3.0000	13.7500	2.00
0019454802	8380	19.0000	1.4998	4.0000	1.5000	28.7500	2.00
0019456282	9531	32.0000	.9996	2.7500	3.0000	15.0000	2.00
0019457732	9601	20.0000	1.2500	3.5000	2.0000	12.5000	2.00
0019454302	1.0000	17.0000	1.4998	4.0000	3.0000	8.3100	2.00
0019454302	1.0039	13.8800	.9998	5.5700	3.5000	5.5000	2.00
0019458132	1.0625	10.0000	1.0000	3.5000	2.0000	11.5000	2.00
0019457322	1.0625	16.0000	1.0000	3.5000	2.2500	14.0000	2.00
0019457312	1.0625	19.0000	1.4998	4.0000	3.0000	15.0000	2.00
0019454982	1.0651	20.0000	1.2500	3.5000	2.0400	7.5000	2.00
0019457742	1.2600	10.5000	1.4998	3.0000	45.2000	482.6000	2.00
0019459287	11.0000	558.8000	19.0470	89.8000	28.4000	177.8000	2.00
0019459315	11.5000	279.4000	25.4000	88.9000	88.1000	165.0000	2.00
0019459362	14.0000	266.7000	25.4000	86.9000	100.0000	180.5000	2.00
0019459272	14.5000	266.7000	25.4000	83.5000	63.5000	215.9000	2.00
0019459252	14.5000	266.7000	25.3950	76.2000	38.1000	215.9000	2.00
0019459502	15.0000	304.8000	25.4000	60.0000	25.4000	257.2000	2.00
0019459246	15.0000	240.0000	25.4000	60.0000	25.4000	317.2000	2.00
0019459247	16.7500	290.0000	25.4000	101.6000	17.5000	279.4000	2.00
0019458812	17.0000	400.0000	25.4000	101.6000	36.3000	265.8000	2.00
0019459272	17.0000	400.0000	25.4000	101.6000	57.9000	218.0000	2.00
0019458732	18.2500	307.4000	22.2250	88.9000			

020431.0834

Database System Facilitating Textual  
Search by: Steven C. Bailey, et al.  
Filed: January 18, 2002 Sheet 20 of 49

Fig. 9G

PART NO.	OUT DIA-A	OVERALL LENGTH-B	SHANK DIA-C	SHANK LENGTH-D	TIP LENGTH-E	FLUTE LENGTH-F	PNT-A
0019459202	20.5000	304.0380	22.2250	85.2000	57.8120	214.6300	2.00
0019459202	20.5000	303.7000	25.4000	85.2000	44.4500	222.1000	2.00
0019459202	21.0312	482.8000	26.0812	101.6000	109.8000	274.6500	2.00
0019459202	21.0312	334.8000	25.4000	75.2000	50.8000	215.9000	2.00
0019459202	22.1869	298.0000	25.2949	101.6000	76.2000	274.6500	2.00
0019459202	23.8125	406.4000	25.4000	85.2000	50.8000	222.1000	2.00
0019459202	23.8125	355.8000	25.2949	101.6000	50.8000	214.6300	2.00
0019459202	23.8125	482.8000	26.0812	101.6000	76.2000	274.6500	2.00
0019459202	24.2087	812.8000	25.3898	69.8500	38.1000	230.2500	2.00
0019459202	24.3865	308.0000	21.7500	85.2000	76.2000	261.0000	2.00
0019459202	25.4000	411.8000	25.2949	101.6000	50.8000	214.6300	2.00
0019459202	25.4999	352.5500	25.2949	141.1780	76.2000	211.9740	2.00
0019459202	26.9875	254.0000	25.4000	85.2000	61.9750	138.7000	2.00
0019459202	26.9875	406.4000	25.4000	85.2000	50.8000	222.1000	2.00
0019459202	26.9875	482.8000	26.0812	101.6000	57.1500	255.6000	2.00
0019459202	27.5615	508.0000	21.7500	85.2000	76.2000	261.0000	2.00
0019459202	32.0040	266.0000	26.0812	76.2000	51.8150	190.5000	2.00
0019459202	11.9000	558.8000	19.0470	62.3000	45.2000	482.5000	2.00
0019459202	11.5000	278.4000	25.4000	85.2000	28.4000	177.9000	2.00
0019459202	14.0000	286.7000	25.4000	85.2000	28.1000	165.0000	2.00
0019459202	14.5000	266.7000	25.4000	63.5000	63.5000	190.5000	2.00
0019459202	14.5000	304.0000	25.3950	76.2000	26.1000	215.5000	2.00
0019459202	15.0000	320.0000	25.4000	60.0000	25.4000	267.2000	2.00
0019459202	16.7500	350.0000	25.4000	60.0000	25.4000	211.2000	2.00
0019459202	17.0000	400.0000	25.4000	101.6000	17.5000	272.4000	2.00
0019459202	17.0000	400.0000	25.4000	101.6000	36.3000	265.8000	2.00
0019459202	18.2500	307.4000	22.2250	85.2000	67.2000	218.9000	2.00

170 172 174 176

Details Attributes Prev 100 Last 6 Reset Modify

208 212 180 178 196 182

198 200 202

158 159

Fig. 9H

PART NO.	OUT DIA-A	OVERALL LENGTH-B	SHANK DIA-C	SHANK LENGTH-D	TIP LENGTH-E	FLUTE LENGTH-F	PNT-A
0019459202	8.071	11.9700	8.750	3.5000	2.2900	8.4500	2.00
0019459202	8.125	15.5000	1.0000	3.5000	1.7500	11.5000	2.00
0019459202	8.280	19.0000	1.4999	4.0000	2.0000	14.5000	2.00
0019459202	8.375	25.0000	1.0000	3.0000	2.0000	8.5000	2.00
0019459202	8.425	20.0000	1.4998	4.0000	2.0000	14.7500	2.00
0019459202	8.575	16.0000	1.0000	3.5000	2.0000	11.5000	2.00
0019459202	8.580	14.0000	1.4998	4.0000	2.0000	9.7500	2.00
0019459202	8.580	19.0000	1.4998	4.0000	2.0000	13.7500	2.00
0019459202	8.531	32.0000	1.9998	7.5000	1.5000	26.7500	2.00
0019459202	9.501	20.0000	1.2500	3.5000	2.0000	15.0000	2.00
0019459202	1.0000	17.0000	1.4998	4.0000	2.0000	12.5000	2.00
0019459202	1.0039	13.8800	1.9998	6.5700	2.0000	8.3100	2.00
0019459202	1.0625	10.0000	1.0000	3.5000	2.4400	5.5000	2.00
0019459202	1.0625	16.0000	1.0000	3.5000	2.0000	11.5000	2.00
0019459202	1.0625	19.0000	1.4998	4.0000	2.2500	14.0000	2.00
0019459202	1.0511	20.0000	1.2500	3.5000	2.0000	15.0000	2.00
0019459202	1.2900	10.5000	1.0000	3.0000	2.0400	7.5000	2.00
0019459202	0.4330	21.9999	0.7498	2.7519	1.7795	18.0000	2.00
0019459202	0.4527	10.9999	0.9999	3.5000	1.1181	7.0000	2.00
0019459202	0.2511	10.4999	0.9999	3.5000	1.5000	6.4900	2.00
0019459202	0.3708	10.4999	0.9999	3.5000	1.5000	7.4929	2.00
0019459202	0.3708	12.0000	0.9998	3.0000	1.5000	8.5000	2.00
0019459202	0.5905	13.3858	0.9999	2.3622	0.9999	10.5186	2.00
0019459202	0.5994	15.3543	0.9999	2.3622	0.9999	12.4881	2.00
0019459202	0.5692	15.7480	0.9999	3.2999	0.5689	10.5292	2.00
0019459202	0.5692	15.7480	0.9999	3.2999	1.2861	11.2519	2.00
0019459202	0.7185	12.1023	0.8750	3.5000	2.2795	8.5826	2.00

170 172 174 176

Details Attributes Prev 100 Last 6 Reset Modify

208 212 180 178 196 182

198 200 202

158 159

Fig. 10

WEGAP

Item number 1 of 398

KEYWORD SEARCH SERIAL SEARCH ORDER STATUS HELP

Categories: TOOLING Keyword: DRILL CARBIDE/SOLID OR TIP EDM PROZ

Item #: 0020420411 Price: \$1.00 MFR Name: GUMFINK MFR Part #: 4701 Web Link: [Link]

Description: R SHAPE, 001200 CUTTING DIA, 00300 OVER ALL LENGTH, 00130 FLUTE LENGTH, 001500 SHANK DIAMETER, 00200 SHANK REDUCED LENGTH, 00100 POINT STYLE, 00100 POINT ANGLE, 1 BURR, NO OIL APPVD: GUMFINK 701

Location: (Click location for quantity) CAT INDOOR MATERIALS PURCH-LIF FUEL SYSTEMS-77

Quantity: 150 Building Code: B

FASTEN IMAGE (PG)

Order 1 of 398

Signed by:

Fig. 11

Employee Name 248  
KIPLINGER

Employee ID 249  
0000039596

Emp Div/Sec 250  
85560

Class/Ident 251  
1 0020420411 252

Facility Code 253  
29

Building Code 254  
B

Crib No. 255  
27

Keyword 256  
DRILL CARBIDE/SOLID OR TIPPED MP2040

UM 258  
PC

Description 257  
1 SHAPE, 001:200 CUTTING DIA,  
0030:0 OVER ALL LENGTH, 0013:0  
FLUTE LENGTH, 001:500 SHANK  
DIAMETER, 000:0 SHK REDUCED LGH,  
0 POINT STYLE, 130 POINT ANGLE,  
1 MARGIN, NO OIL. APPVD: GUHRING  
701

Qty On H: 264  
150

Alloc: 265

Qty Ordered 260  
10

Charge Div/Sec 261  
85560

Expense Acct. 262  
999

Equipment No. 268  
123456789

Order No. 269

Delivery Note 271

Submit 272

Cancel 273

Help 274

Signed by: 246

Fig. 12A

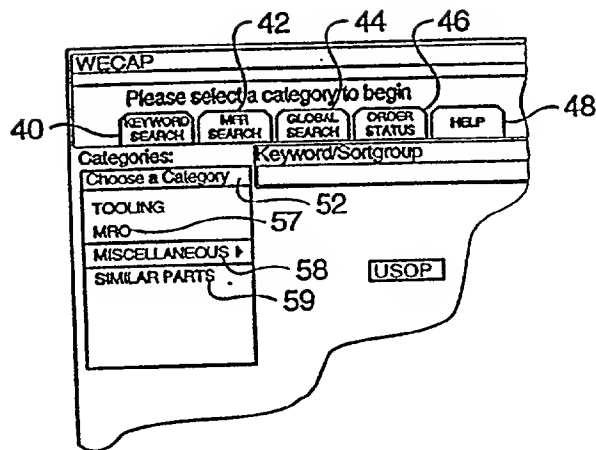


Fig. 12B

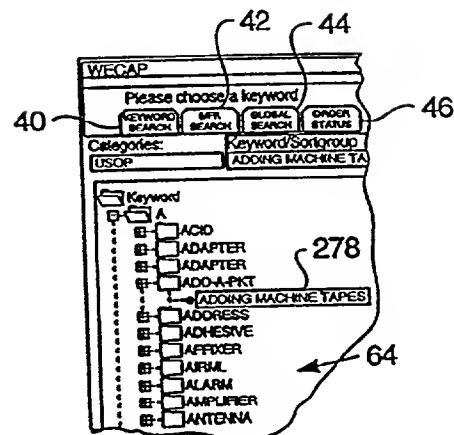


Fig. 12C

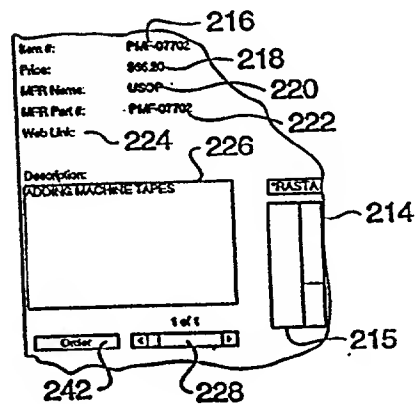


Fig. 13A

WECAP

32

REQR NAME	PHONE EXT	DELIVER TO LOCATION	BUY FAC	RCV FAC	PO PREFIX	DOCK NO	DATE
KIPLINGER	43397				UBG		2000-04-19
REQR E-MAIL ID	DELIVER TO NAME	PH EXT	DEL TO CODE	SHIP ROUTING	DUE DATE		
					2000-04-20		
NOTE CODES:	REMARKS: (Internal)		REBILL CODE				
U9 400							
	NOTES: (To Supplier)						
DISTRIBUTION FAC DEPT DIV SECT EXP ORDER NO. MISC TAX CODE TAX QUAL							
ACCOUNTING	NT	U0994	1865	160			
<small>Fac. Contd/Asst Sub Asst Sub/Sub Order No. Misc</small>							
ITEM NO. CATERPILLAR IDENT. NO. DESCRIPTION QUANTITY U/M PRICE PER							
01	KPMF-07702	LOADING MACHINE TAPES			CTN	66.21	

Submit Cancel Charge To Help

Signed by:

280

282

36



THE UNIVERSITY OF CHICAGO

REQR NAME KIPLINGER		PHONE EXT 43397	DELIVER TO LOCATION		BUY FAC	RCV FAC	PO PREFIX UBG	DOCK NO	DATE 2000-04-19
REQR E-MAIL ID		DELIVER TO NAME		PH EXT	DEL TO CODE		SHIP ROUTING	DUE DATE 2000-04-20	
NOTE CODES: U9 400		REMARKS: (Internal)							REBILL CODE
		NOTES: (To Supplier)							

DISTRIBUTION ACCOUNTING	FAC DEPT IN U0994	DIV 865	SECT 60	EXP 60	ORDER NO. Order No.	MISC Misc	TAX CODE	TAX QUAL	<input type="checkbox"/> MANUAL REVIEW							
<table border="1"> <tr> <td>ITEM NO. 01</td> <td>CATERPILLAR IDENT. NO. PMF-07702</td> <td>DESCRIPTION ADDING MACHINE TAPES</td> <td>QUANTITY CTN</td> <td>UM</td> <td>PRICE 66.21</td> <td>PER</td> </tr> </table>										ITEM NO. 01	CATERPILLAR IDENT. NO. PMF-07702	DESCRIPTION ADDING MACHINE TAPES	QUANTITY CTN	UM	PRICE 66.21	PER
ITEM NO. 01	CATERPILLAR IDENT. NO. PMF-07702	DESCRIPTION ADDING MACHINE TAPES	QUANTITY CTN	UM	PRICE 66.21	PER										

287 Submit

288 Cancel

289 Charge To

290 Help

291

292

Fig. 13C

2004-01-20 14:25:00

REQR NAME  
KIPLINGER

REQR E-MAIL ID

NOTE CODES:

U9	400

DISTRIBUTION ACCOUNTING

ITEM NO. CATER  
01 PMF-0

Charge To: (If other than Submitter)

Last Name  
Blessin

Fac Code

293

295

296

283  
☒ Employee  
☐ Contractor  
☐ Both

297  
Search  
Clear  
Select  
Cancel

298  
299  
300

294  
VIEW

292  
Submit  
Cancel  
Charge To  
Help

Signed by:

280

Fig. 13D

REQR NAME  
KIPLINGER

REQR E-MAIL ID

NOTE CODES:  
U9 400

DISTRIBUTION  
ACCOUNTING

ITEM NO. CATER  
01 PMF-0

Signed by:

Charge To: (If other than Submitter)

Last Name 293  
Blessin

N4	BLESSIN	DAVID	W
JA	BLESSIN	JENNIFER	L
N1	BLESSIN	STEPHEN	W
41	BLESSING	MICHAEL	E

300

Fac Code 297

283  
☒ Employee

Contractor 295

Both 296

Search 297

Clear 298

Select 300

Cancel 299

VIEW 294

Submit

Cancel

Charge To 292

Help

280

Fig. 13E

Fig. 13E is a screenshot of a database system interface for managing purchase orders. The interface is divided into several sections with various input fields and buttons.

**Top Section:**

- REQR NAME:** BLESSIN (284)
- PHONE EXT:** 434011 (302)
- DELIVER TO LOCATION:** (307)
- BUY FAC:** (310)
- RCV FAC:** (312)
- PO PREFIX:** URG (305)
- DOCK NO:** (318)
- DATE:** 2000-04-20 (285)

**Second Section:**

- REQR E-MAIL ID:** (320)
- DELIVER TO NAME:** (322)
- PH EXT:** (324)
- DEL TO CODE:** (328)
- SHIP ROUTING:** (330)
- DUE DATE:** 2000-04-21 (326)
- REBILL CODE:** (326)

**Third Section:**

- NOTE CODES:** (286) - Includes a dropdown menu with "U9" and "400".
- REMARKS: (Internal):** (330)
- NOTES: (To Supplier):** (332)

**Fourth Section:**

- DISTRIBUTION ACCOUNTING:** (334)
- FAC DEPT:** NT (335)
- DIV:** 0994 (336)
- SECT:** 055 (337)
- EXP:** 60 (304)
- ORDER NO:** (340)
- MISC:** (342)
- TAX CODE:** (344)
- TAX QUAL:** (346)
- MANUAL REVIEW:** (350)

**Fifth Section:**

- ITEM NO. CATERPILLAR/IDENT. NO.:** 01 PMF-07702 (287)
- DESCRIPTION:** ADDING MACHINE TAPES (289)
- QUANTITY:** (309)
- UOM:** CTN (290)
- PRICE:** 65.21 (291)
- PER:** (352)

**Bottom Section:**

- Submit:** (354)
- Cancel:** (356)
- Charge To:** (292)
- Help:** (358)

**Footer:** Signed by: (354)

Fig. 13F

305

BUY FAC	RCV FAC	PO PREFIX	DOCK NO	DATE
		UBG		2000-04-24

UBG

UBGA

UBGC

UBGD

UBGE

UBGF

UBGG

SHIP ROUTING

DUE DATE

2000-04-25

REBILL CODE

316

Fig. 13G

334 335 336 337 304 308

DISTRIBUTION	FAC DEPT	DIV	SECT	EXP	ORDER NO.	MISC	TAX CODE	TAX QUAL	<input type="checkbox"/> MANUAL REVIEW
ACCOUNTING	NT	10944	1865	170	1087				
1022	RPR AND MAIN VEHICLES				Order No.	Misc			
1066	RPR TO EQUIPMENT				DESCRIPTION	QUANTITY	UM	PRICE	PER
1068	RPR AND MAIN BUILDINGS				CHINE TAPES		CTN	66.21	
1061	SUP. FURN AND OFFICE EQUIP								
1067	SUP. MISCELLANEOUS								
1084	OTHER SPEC ORDERS								

338

Signed by:

Charge To  Help

Fig. 13H

020431.0834

DISTRIBUTION	FAC	DEPT	DIV	SECT	EXP	ORDER NO.	MISC	TAX CODE	TAX QUAL	<input type="checkbox"/> MANUAL REVIEW
ACCOUNTING	N1	00944	865	70	1087					
Fac: Control/Act/Sub/Act/S										
ITEM NO.	CATERPILLAR	IDENT. NO.	<div>BZ BUSINESS ZONE CR PURCH CREDIT EZ ENTERPRISE ZONE ME MACHINE / EQUIPMENT ME1 MACHINE / EQUIPMENT ME2 MACH AND EQUIP NC</div>							
01	KPMF-07702									
<div>Submit</div>			<div>348</div> <div>Help</div>							
<div>Signed by:</div>										

Fig. 13I

Charge To : CARR  
Item ID No. : PMF-07702  
Quantity : 1  
\*\*\* Price EST and does not include tax or shipping\*\*\*  
Price per Unit : 66.21  
Total Estimated Price : 66.21  
Order this item ?

Yes No Cancel

Signed by:



Fig. 14A

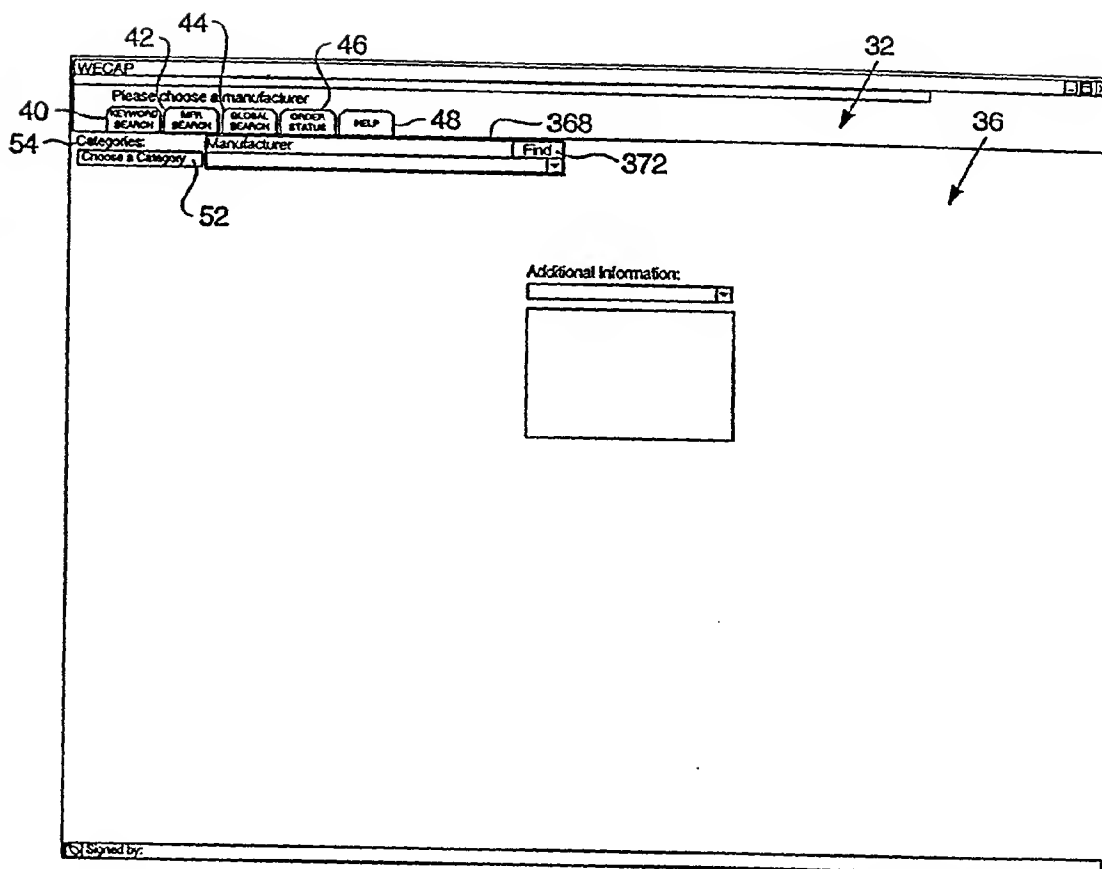


Fig. 14B

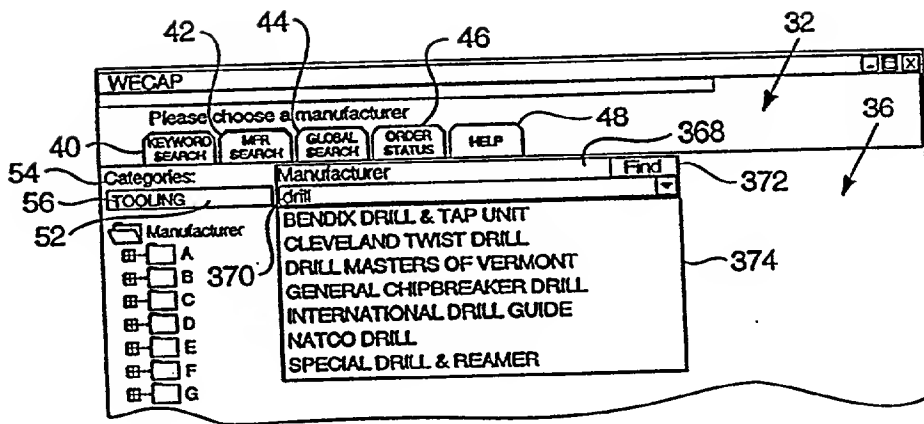


Figure 1 consists of 12 subplots (a-l) showing the time course of various physiological parameters during the first 10 minutes of a 10-minute test. The parameters are: a) HR (b/min), b) BP (mmHg), c) SV (ml), d) SVI (ml/m²), e) CO (l/min), f) COI (l/min/m²), g) VTI (cm), h) VTII (cm), i) VTI/BSA (cm/m²), j) VTI/BSA (cm/m²), k) VTI/BSA (cm/m²), and l) VTI/BSA (cm/m²). Each graph shows a baseline period followed by a 10-minute test period. The parameters generally show an increase during the test period.

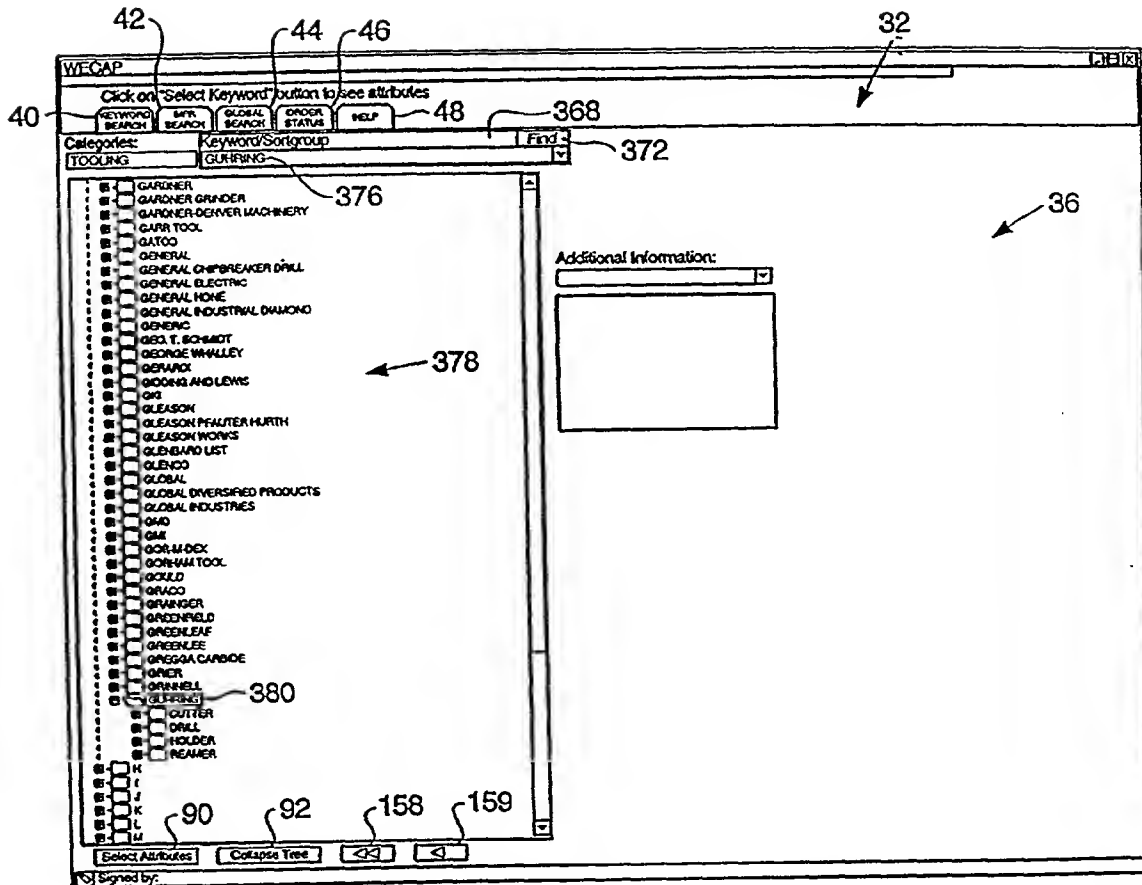


Fig. 14D

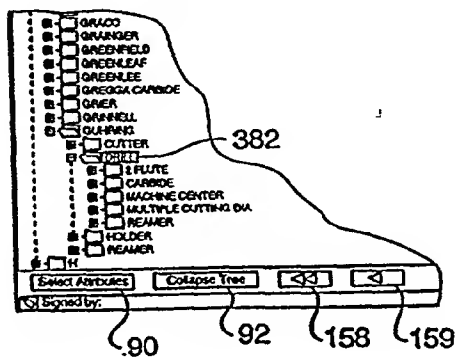
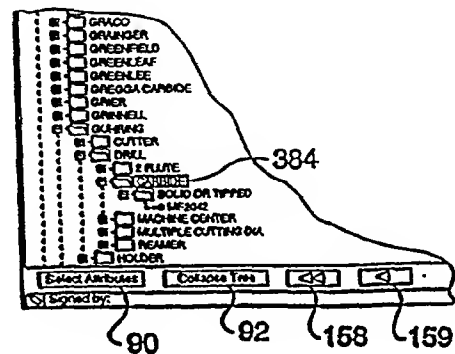


Fig. 14E



**THE UNIVERSITY OF CHICAGO**

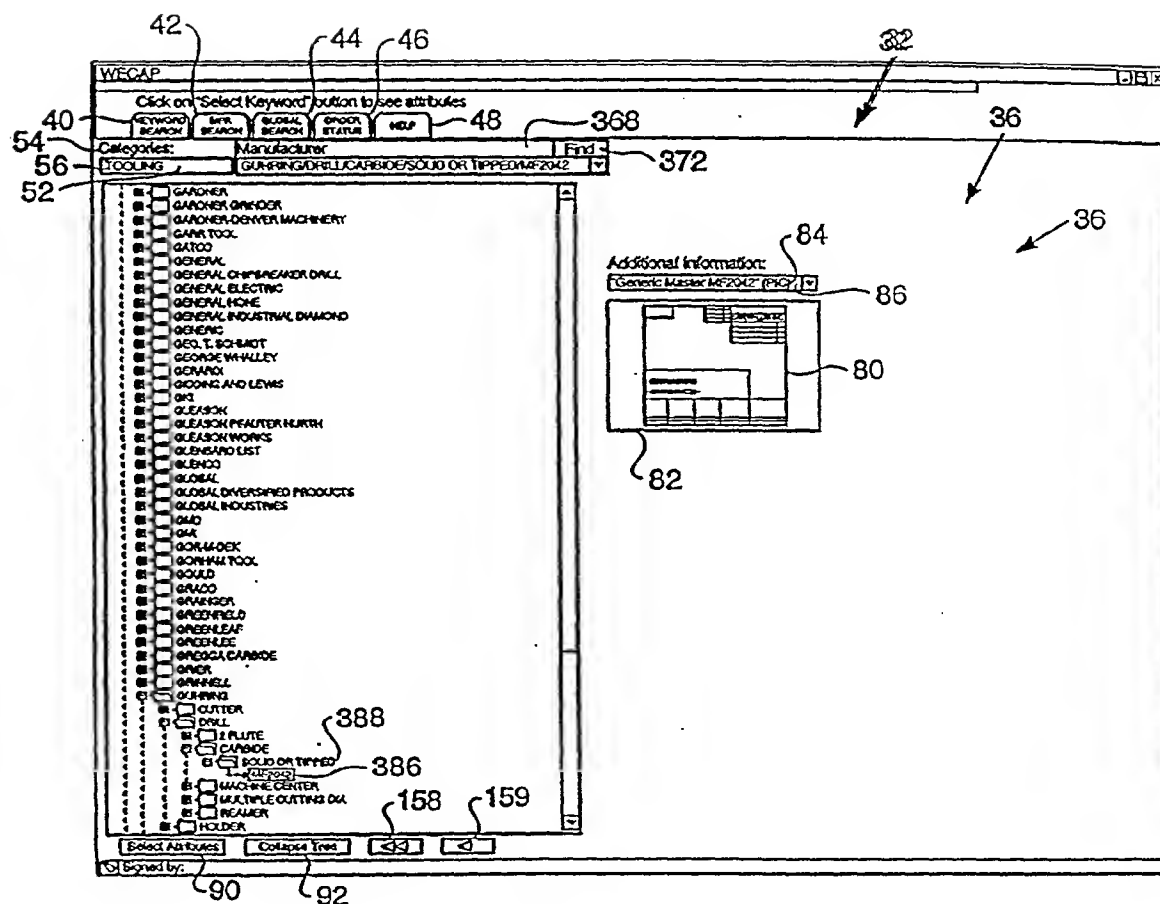


Fig. 14G

WECAP

Results 1-24 of 24

40 168 42 44 46 32

54 KEYWORD SEARCH 56 52 160

Categories: Keyword: 48 163 164 165 166 36 167

TOOLING: DRILL/CARBIDE COLD OR TIPPED/AF2042

PART NO.	SHAPE	CUTTING DIA.	OVERALL LENGTH	FLUTE LENGTH	SHANK DIAMETER	SHK REDUCED LGTH	POINT STYLE	POINT
0020-20411	1.0000	1.2000	30.0000	13.0000	1.5000			130
0020-20412	1.0000	1.7000	43.0000	20.0000	1.7000			118
0020-20413	1.0000	10.0000	75.0000	38.0000	10.0000			118
0020-20414	1.0000	11.3000	95.0000	47.0000	11.3000			150
0020-20415	1.0000	12.8000	102.0000	51.0000	12.8000			150
0020-20416	1.0000	14.2900	145.0000	85.0000	16.0000			140
0020-20417	1.0000	2.5000	45.0000	15.0000	2.5000			130
0020-20418	1.0000	2.9000	46.0000	16.0000	2.9000			118
0020-20419	1.0000	3.2000	49.0000	18.0000	3.2000			118
0020-20420	1.0000	3.2400	49.0000	24.0000	3.2400			150
0020-20421	1.0000	4.5000	60.0000	25.0000	4.5000			118
0020-20422	1.0000	4.6000	66.0000	24.0000	4.6000			118
0020-20423	1.0000	4.8000	60.0000	25.0000	4.8000			118
0020-20424	1.0000	4.9000	60.0000	25.0000	4.9000			118
0020-20425	1.0000	5.2000	60.0000	25.0000	5.2000			118
0020-20426	1.0000	6.0000	60.0000	25.0000	6.0000			118
0020-20427	1.0000	6.9000	77.2000	32.0000	6.9000	37.0000		150
0020-20428	1.0000	8.2000	72.0000	37.0000	8.2000			150
0020-20429	1.0000	9.4000	84.0000	40.0000	9.4000			150
0020-20430	1.0000	9.5000	84.0000	40.0000	9.5000			150
0020-20431	2.0000	20.0000	131.0000	40.0000	20.0000			90
0020-20432								
0020-20433								
0020-20434								
0020-20435								
0020-20436								
0020-20437								
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0020-20469								
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0020-20492								
0020-20493								
0020-20494								
0020-20495								
0020-20496								
0020-20497								
0020-20498								
0020-20499								
0020-20500								

170 172 174 176

Details Attributes Prev 100 Next 100 Reset Modify...

208 212 180 178 196 182

Units: 198 200 202

158 159

Signed by:

Fig. 15A

WPCAP

Enter values and click on "Search"

KEYWORD SEARCH MFR SEARCH GLOBAL SEARCH ORDER STATUS HELP

Categories:

ALL

TOOLING

MRO

MISCELLANEOUS

SIMILAR PARTS

Free Search

Data entered in "Free Search" is used to search across all fields. You may also type specific data in the fields below to more accurately describe the desired results and to speed your search.

Part Number MFR Part Number Part Price Start Part Price Stop

Manufacturer

Part Description

Keyword

Search Clear All

Signed by:

Fig. 15B

The screenshot shows a web browser window titled "WECAP". At the top, there is a navigation bar with buttons for "KEYWORD SEARCH", "BETA SEARCH", "GLOBAL SEARCH", "ORDER STATUS", and "HELP". A text input field labeled "32" is positioned to the right of these buttons. Below the navigation bar, a section labeled "40" contains the instruction "Enter value(s) and click on 'Search'". This section includes a "Free Search" input field labeled "390" and a "Date" input field labeled "394". A text box labeled "408" provides instructions: "Data entered in 'Free Search' is used to search across all fields. You may also type specific data in the fields below to more accurately describe the desired results and to speed your search." Below this, there are several input fields: "Part Number" (392), "MFR Part Number" (394), "Part Price Start" (396), and "Part Price Stop" (398). A "Manufacturer" input field is labeled "400", and a "Part Description" input field is labeled "402". A "Keyword" input field is also present. At the bottom, there are buttons for "Search" (412), "Clear All" (410), and two navigation buttons labeled "158" and "159". On the left side, a vertical menu labeled "406" lists categories: "FULL", "TOOLING", "MRO", "INTERNAL", "USOP", "MISCELLANEOUS", and "SIMILAR PARTS". The "MISCELLANEOUS" category is currently selected, indicated by a right-pointing arrow.

Fig. 15C

40 42 44 46 32 36 48

WECAP

Results 1-100 of 398

KEYWORD SEARCH MFR SEARCH GLOBAL SEARCH ORDER STATUS HELP

Categories: Keyword:

PART NO	RANK (MAX)	CATEGORIES	KEYWORD	DESCRIPTION
0001100232	1	TOOLING	MF2379	2.583 DRILL SIZE 0.828 BIT OD 2.00 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD
0001100342	2	TOOLING	MF2379	16.20 DRILL SIZE 15.94 BIT OD 26.7 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROV
0001100772	3	TOOLING	MF2379	22.50 DRILL SIZE 46.53 BIT OD 73.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100782	4	TOOLING	MF2379	14.75 DRILL SIZE 43.42 BIT OD 73.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100802	5	TOOLING	MF2379	13.80 DRILL SIZE 41.24 BIT OD 73.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100812	6	TOOLING	MF2379	11.00 DRILL SIZE 36.10 BIT OD 73.7 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100842	7	TOOLING	MF2379	16.20 DRILL SIZE 36.14 BIT OD 72.2 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100872	8	TOOLING	MF2379	13.50 DRILL SIZE 36.10 BIT OD 44.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100882	9	TOOLING	MF2379	17.50 DRILL SIZE 44.45 BIT OD 80.4 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100892	10	TOOLING	MF2379	11.00 DRILL SIZE 36.10 BIT OD 44.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100902	11	TOOLING	MF2379	14.00 DRILL SIZE 36.10 BIT OD 44.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100912	12	TOOLING	MF2379	20.50 DRILL SIZE 44.45 BIT OD 43.5 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100915	13	TOOLING	MF2379	17.00 DRILL SIZE 44.45 BIT OD 80.4 OVERALL LENGTH HSS MATERIAL TYPE M-2 MATERIAL GRADREF: DEC
0001100917	14	TOOLING	MF2379	13.80 DRILL SIZE 35.94 BIT OD 26.7 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROV
0001100921	15	TOOLING	MF2379	13.80 DRILL SIZE 35.94 BIT OD 26.7 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROV
0001100922	16	TOOLING	MF2379	17.00 DRILL SIZE 45.40 BIT OD 77.2 OVERALL LENGTH HSS MATERIAL TYPE STD MATERIAL GRAD APPROV
0001100932	17	TOOLING	MF2379	31.00 DRILL SIZE 10.9 TO 12.0 MM DRILL RANGE 30 DEG INCL ANGLE 34.00 DIA BODY 32.00 DIA SHANK 33.00 DIA
0001100934	18	TOOLING	MF2379	14.00 DRILL SIZE 40.00 BIT OD 60.0 OVERALL LENGTH TIN MATERIAL TYPE C-5 MATERIAL GRAD APPROVED
0001100935	19	TOOLING	MF2379	14.00 DRILL SIZE 40.00 BIT OD 60.0 OVERALL LENGTH TIN MATERIAL TYPE C-5 MATERIAL GRAD APPROVED
0001100938	20	TOOLING	MF2379	16.00 DRILL SIZE 40.00 BIT OD 60.0 OVERALL LENGTH TIN MATERIAL TYPE C-5 MATERIAL GRAD APPROVED
0019234332	21	TOOLING	MF2035	SGL SHAPE 0.808 BODY DIAMETER 0.2500 DRILL DIAMETER 0.250 DRILL LENGTH 0.13 OVERALL LENGTH
0019262542	22	TOOLING	MF2060	1.6984 CUT DIAMETER 14.86 OVERALL LENGTH 04 SHANK NO MT SHANK TYPE 0.000 SHANK DIA HSS MAT
0019324422	23	TOOLING	MF2060	0.4219 CUT DIAMETER 07.25 OVERALL LENGTH 00 SHANK NO SS SHANK TYPE 0.422 SHANK DIA HSS MAT
0019329735	24	TOOLING	MF2060	BROCA 491 MM DIA 18.250 CC 75 CT 136 HASTE R 18.250 CUT DIAMETER 136.0 OVERALL LENGTH ET ANG
0019706572	25	TOOLING	MF2080	0.2607 SMALL DIA 0.8561 LARGE DIA 08.50 OVERALL LENGTH 00.47 STEP LENGTH 04.88 FLUTE LENGTH
0019799792	26	TOOLING	MF2080	MULTIPLE CUTTING DIA 29.50 SMALL DIA 0.8520 LARGE DIA 4.25 RICAL MATL HSS STD
0019807582	27	TOOLING	MF2080	25.800 SMALL DIA 08.525 LARGE DIA 11.45 OVERALL LENGTH 019.5 STEP LENGTH 014.0 FLUTE LENGTH
0019811535	28	TOOLING	MF2080	24.100 SMALL DIA 09.000 LARGE DIA 16.50 OVERALL LENGTH 035.0 STEP LENGTH 079.0 FLUTE LENGTH
0020184372	29	TOOLING	MF2055	R SHAPE 81.800 CUTTING DIA 14.75 OVERALL LENGTH 10.75 FLUTE LENGTH 50 SHANK NO V1.6 SHANK
0020187024	30	TOOLING	MF2055	R SHAPE 80.000 CUTTING DIA 126.0 OVERALL LENGTH 045.0 FLUTE LENGTH 80 SHANK NO ABS SHANK
0020187616	31	TOOLING	MF2055	R SHAPE 831.10 CUTTING DIA 126.0 OVERALL LENGTH 045.0 FLUTE LENGTH 80 SHANK NO ABS SHANK
0019234342	32	TOOLING	MF2035	SGL SHAPE 1.000 BODY DIAMETER 0.3120 DRILL DIAMETER 0.312 DRILL LENGTH 0.13 OVERALL LENGTH
0019282652	33	TOOLING	MF2060	1.8000 CUT DIAMETER 06.42 OVERALL LENGTH 04 SHANK NO MT SHANK TYPE 0.000 SHANK DIA HSS MAT
0019324432	34	TOOLING	MF2060	0.5312 CUT DIAMETER 06.00 OVERALL LENGTH 00 SHANK NO SS SHANK TYPE 0.531 SHANK DIA HSS MAT
0019329736	35	TOOLING	MF2060	BROCA 491 MM DIA 18.250 CC 75 CT 136 HASTE R 18.250 CUT DIAMETER 136.0 OVERALL LENGTH ET ANG

170 172 158 159

Details Attributes Prev 100 Next 100

208 212 180 178

Signed by:



Fig. 15D

Fig. 15E

Fig. 15F

32

36

420

WECAP

Results 1 of 1

Item #: 0020420411  
Category: TOOLING  
Keyword: Drill/Carbide/Solid or Tipped/MF2042

Characteristic	Value
SHAPE	1.0000
CUTTING DIA-A	1.2000
OVER ALL LENGTH-B	30.0000
FLUTE LENGTH-C	13.0000
SHANK DIAMETER-D	1.5000
SHK REDUCED LGH-E	
POINT STYLE	
POINT ANGLE-F	130.0000
MARGIN	1.0000
OIL HOLE	NO
MATERIAL TYPE	TC
MATERIAL GRADE	C-2
PT GRD INC ANG-G	
PT GRIND LGTH-H	
PT GRD PT LGTH-J	.2800
QTY FLUTES	2.0000
SURFACE TREAT	BRIGHT

1 of 1

Details Cancel

Signed by:

Item: 170

Attributes

208 212

New Results: 172

Prev 100 Next 100

180 178

158 159

Fig. 15G

422

Item #: 0020420411 424

Category: TOOLING 420

Keyword: Drill/Carbide/Solid or Tipped/MF2042 426

Characteristic 428	Value 430
SHAPE	1.0000
CUTTING DIA-A	1.2000
OVER ALL LENGTH-B	30.0000
FLUTE LENGTH-C	13.0000
SHANK DIAMETER-D	1.5000
SHK REDUCED LGH-E	
POINT STYLE	
POINT ANGLE-F	130.0000
MARGIN	1.0000
OIL HOLE	NO
MATERIAL TYPE	TC
MATERIAL GRADE	C-2
PT GRD INC ANG-G	
PT GRIND LGTH-H	
PT GRD PT LGTH-J	.2800
QTY FLUTES	2.0000
SURFACE TREAT	BRIGHT

434

Details Cancel

1 of 1

Signed by: 432 436

Fig. 16A

The screenshot displays a web application interface with the following elements:

- Header:** "WECAP" and "Form number 1 of 14".
- Navigation/Action Buttons:** "KEYWORD SEARCH", "BETA SEARCH", "GLOBAL SEARCH", "SPECIFIC STATUS", and "HELP".
- Search Filters:** "Requisition Date From" (03/01/2000) and "To" (05/15/2000).
- Legend (464):**
  - ☐ Current Location (476)
  - ☐ Approved (478)
  - ☐ Rejected (480)
  - ☐ Pending (482)
  - ☐ FYI (484)
  - ☐ Not Visited (486)
- Requisition Number (462):** "1784 - CHAIR, MID-BCK, A".
- Status (466) and Details (468) Buttons:** Located below the requisition number.
- Timeline/History (470):**
  - Ordered (488):** 03-15-2000
  - 484:** Tom Carroll
  - Sent (486):** 04-04-2000

Fig. 16B

40 42 44 46

WECAP

Please select a category to begin

48 KEYWORD SEARCH 46 BETA SEARCH 44 BASIC SEARCH 42 ORDER STATUS 40 HELP

Requisition Date Range From 03/01/2000 To 05/15/2000

Requisition Number 1784

Order Status

460

474 Legend

476 ☐ Current Location

478 ☐ Approved

480 ☐ Rejected

482 ☐ Pending

484 ☐ FYI

☐ Not Visited

462 Status

470

Ordered

Sent

Details

Francis 1999-12-20

Blessin 1999-12-20

Thomas 1999-12-20

Bailey 1999-12-20

Allen 1999-12-20

Cassel 1999-12-20

Konopka 1999-12-20

Carroll 1999-12-20

Nieukirk 1999-12-20

Smith 1999-12-20

1

Fig. 17A

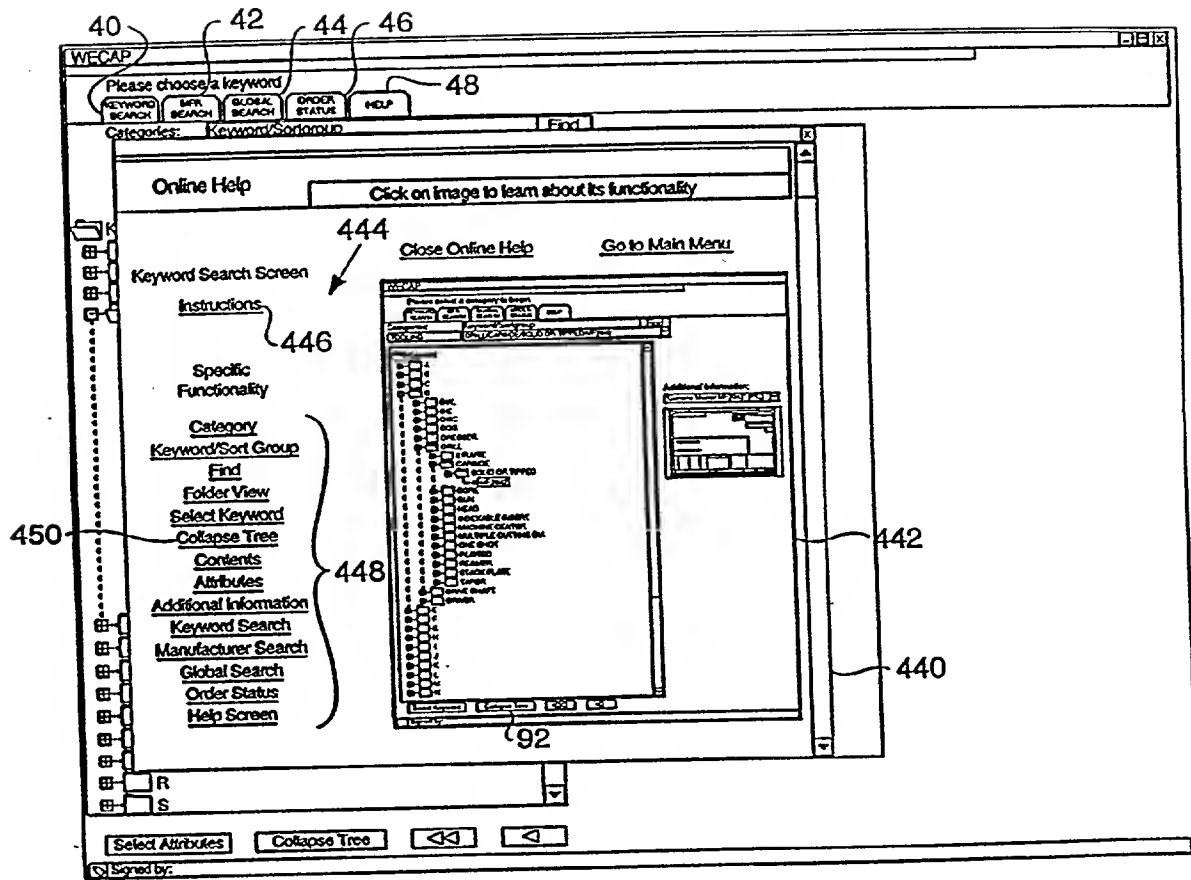
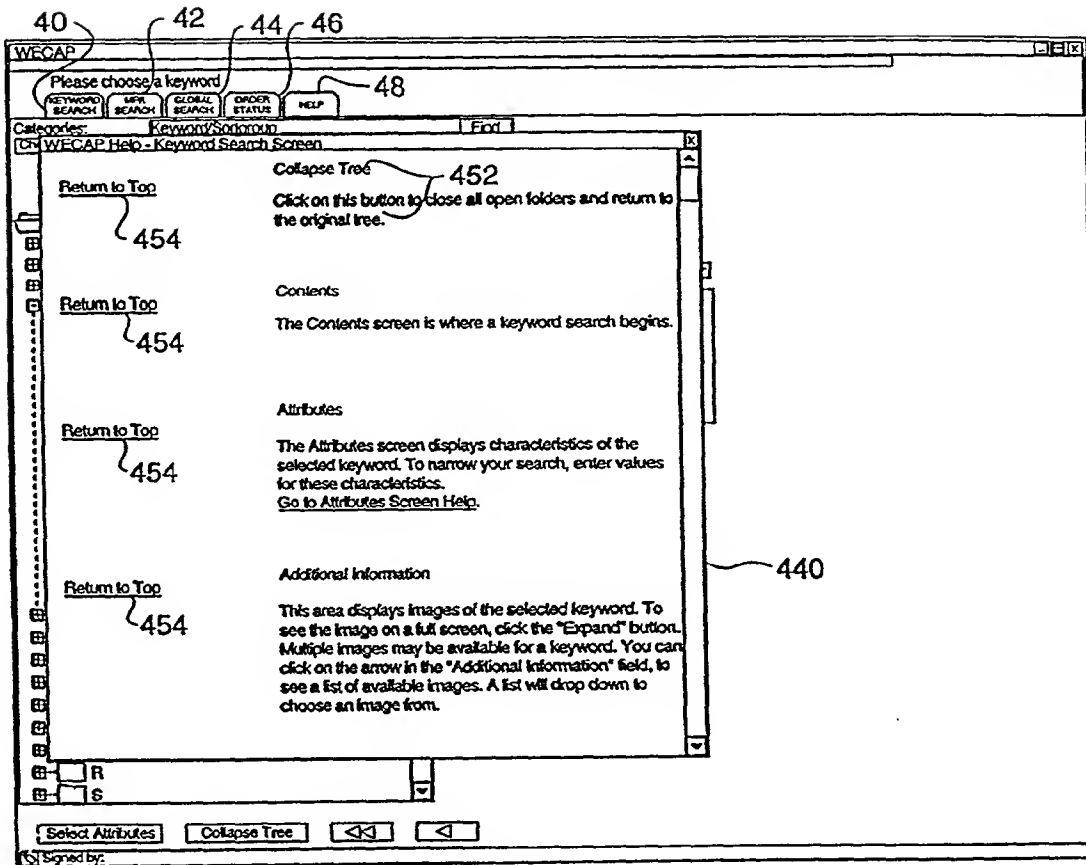


Fig. 17B



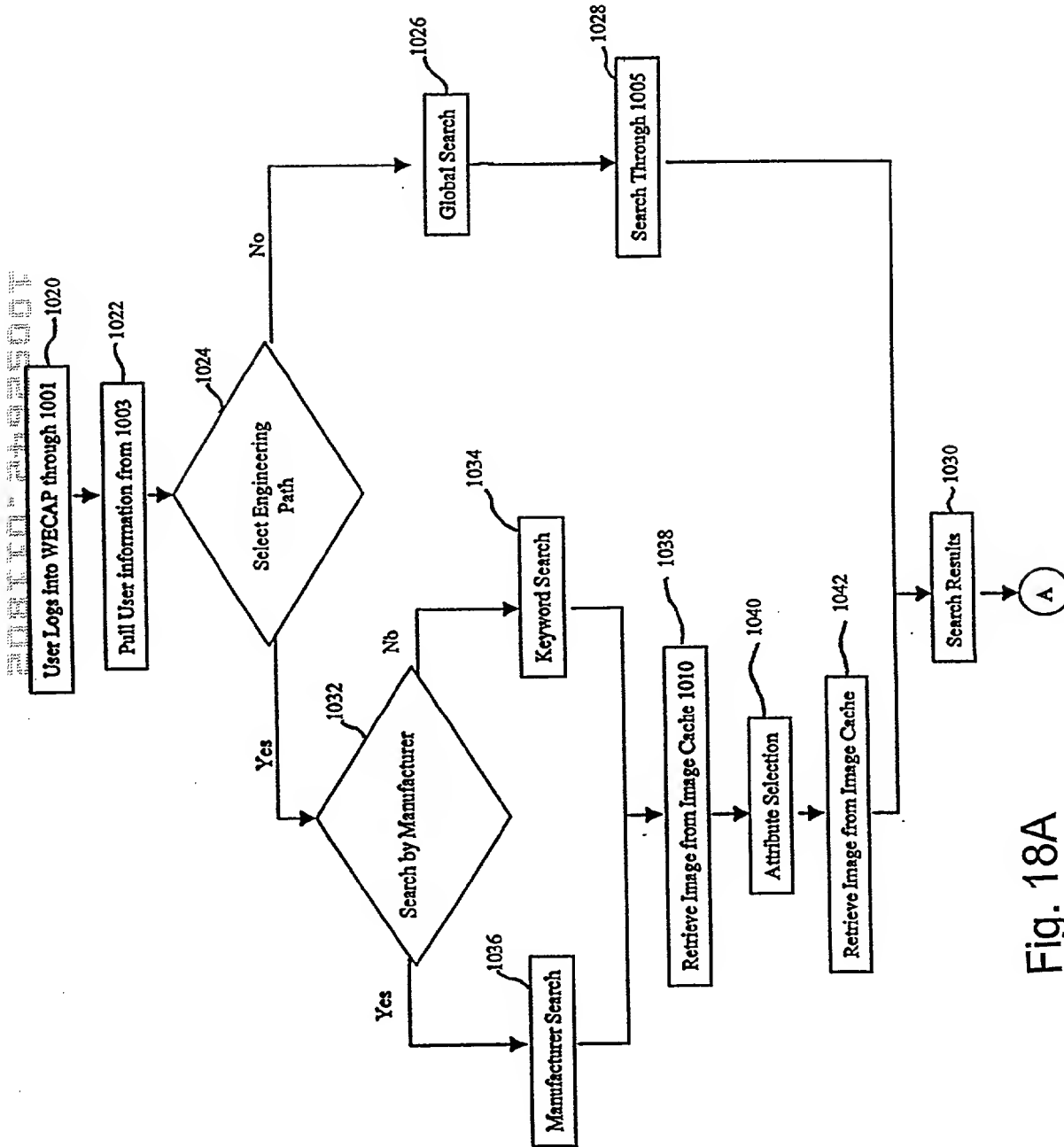


Fig. 18A



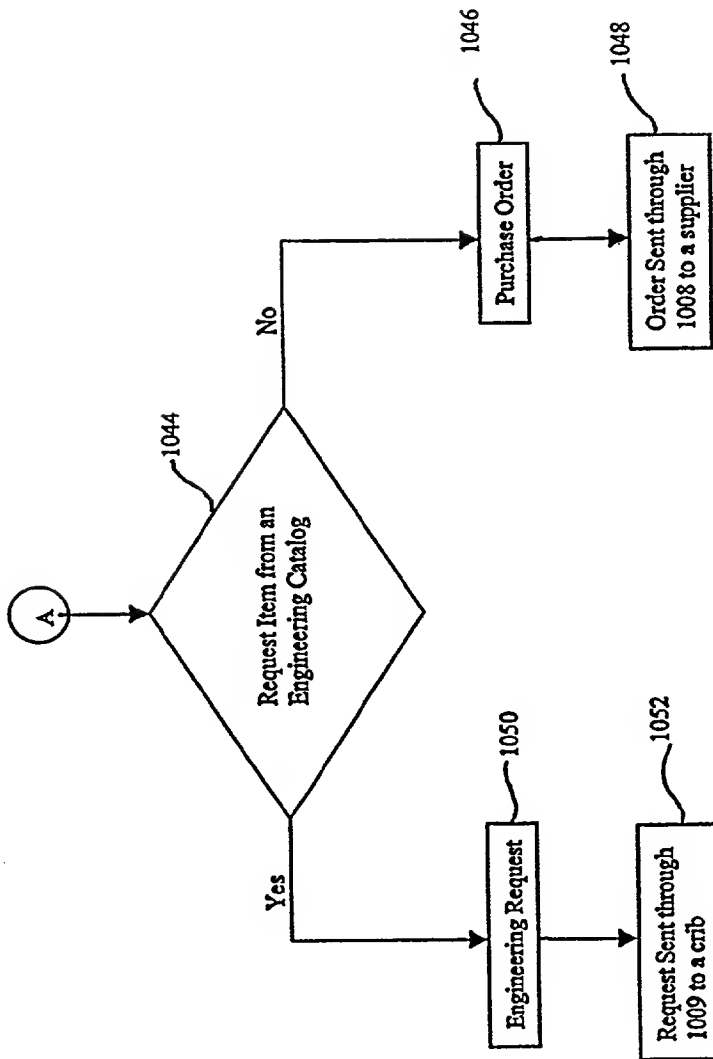


Fig. 18B